

The Now & Then Newsletter of General Technics



Quarks

- We are pleased to report the engagement of Miss Jo Anselm to Dr. Barry Gehm, a Mismanaging Editor of this publication. We thought he was a Confirmed Bachelor, but her charms proved irresistible. They plan to tie the knot next July. Rev. Noel Gehm of Staunton, Illinois, is expected to perform the ceremony. (Yes, he's the groom's father.)
- At last somebody is making money from Cold Fusion! (Outside the state of Utah, we mean.) Our pal Guy Wicker, ace engineer and sometime dirigible pilot, has begun selling Fusion Kits containing tiny vials of deuterated electrolyte, palladium foil, and nickel wire electrodes. The kit comes complete with instructions for twenty-seven bucks. Be warned that Guy offers no guarantee you'll get neutrons, excess heat, tritium, or any other result! But if you've been dying to try fusion experiments in your garage, write to:

Guy Wicker 30437 Fairfax Southfield, MI 48076 (313) 647-1820

- Paul MacNerland, the brilliant young artist whose work graces our cover this issue, was voted Best Fan Artist in the Capricon X artshow. We are tickled pink, since *PyroTechnics* discovered him. (But don't tell Paul that. He thinks he discovered *PyroTechnics*.)
- Franz Zrilich wants Techiedom to tell him: "What are the largest dry cells and batteries made?" He needs some details for a story he's working on. Not rechargeables ("storage batteries"), like nicads, gel cells, or lead-acid batteries. "We are limited by reasons of the story to non-storage batteries... Principally we are considering zinc-carbon, alkaline, and lithium cells." He hasn't had much luck calling the battery companies, and thought Pyro's readers might be able to tell him more. Well?
- Lots of GTers have been getting published lately. "Frost King" by E. Michael Blake, actor, journalist, and bon vivant, appeared the March-April 1990 issue of Aboriginal Science Fiction. The recently doomed Amazing published Martha Soukup's story, "Over the Long Haul," in the March issue. Bill Higgins's article "Hermann Oberth: Founding Father of Space" turned up in the March issue of Ad Astra. And B.D. "Doc" Gehm has just had two

papers accepted by the Journal of Biological Chemistry.

- Remember Scitech, the hands-on children's science museum in Naperville west of Chicago? Well, it just moved to much larger quarters (36,000 square feet) in Aurora, thanks to our Whipcracker, Mary Lynn Johnson. She masterminded the packing of two truckloads' worth of quark machines, iron filings, and bubble generators, so that when movers arrived on 3 March, the whole business went smoothly. Other fans have been good to Scitech, too. The DuPage Science Fiction and Fantasy Society became a sponsoring organization. And at Capricon fannish artists donated artwork which sold for \$381; the cash went towards construction of a new exhibit. Finally, Todd, Mary Lynn, and the tornado machine they built were written up in the new Chicago-based prozine 14th Alternative. Shucks, they scooped us!
- In Glen Ellyn, Illinois, GT's Nick DiMasi has won the Coveted Brass Camera Award for a videotape he made last year. When the public-access channel offered airtime to nonprofit community groups, Nick produced a show where he interviewed Bill Higgins to plug the Chicago Space Frontier Society, the local National Space Society chapter. Nick sweated over a hot editing deck to insert space-flight images in between the talking heads and to generate graphics and titles with his Atari computer. When it came time to compare the year's productions, viewers voted Nick's tape "Best Documentary on an Individual or Organization" and the Glen Ellyn Cable Communications Foundation awarded him a brass TV camera on a marble base.

Fun at Uncle Sam's House of Phantom Surplus

George M. Ewing

Like many other computer hobbyists, I enjoy leafing through the computer classifieds in the local once in a while. newspaper Usually, equipment is advertised for wildly optimistic prices, (i.e. a "nearly new Commnodore casstte and 3 games, best offer over \$750," etc.) but once in a while, there's something interesting. This time, the one that caught my eye was a tiny item near the middle of the column:

> IRS Auction: February 10. Printing machinery and computers. Call Revenue Office for details.

This was followed by an IRS official's name and two phone numbers. When I called, I was told that the auction would be held at a computer store on the north side of St. Petersburg, Florida, and was given directions on finding the place, a building in a small industrial park behind a "strip" shopping mall. The premises would be open at 8:00 AM, and the auction would begin promptly at 10.

The auction sounded promising. They probably weren't going to be selling off warehouses full of old mainframe computers and moldy file cabinets that had been used internally in the dungeons of the IRS itself; such sales are normally handled for government agencies by the GSA, though sometimes semi-autonomous organizations like the TVA and the Postal Service handle their own surplus disposal. No, this was going to be inventory and fixtures from a bankrupt computer store that hadn't been able to keep up with its taxes, which meant that it might include almost anything.

On the morning of the sale, I was the sixth person through the door, a few minutes after eight. Anyone who planned to bid in the auction was asked to sign a roster, and was assigned a bidding number. We were then handed two forms, Treasury Form 2434-B, and Form 2433, revision 9.85. The first was a page of legalese excerpted from sections 6331 and 6335 of the Internal Revenue Code. A VERY loose translation into layman's English would go something like this:

A. The government has the legal right to sell this stuff, but:

- B. If somebody else has a mortgage or other claim on any part of the property that legally comes ahead of the IRS claim, then we can't sell those items, even if they appear on the printed inventory.
- C. All property is sold "As-is" and "Where-is", and "without recourse against the United States" (i.e., no fair asking Uncle Sam for your money back if the hard disk on that bargain computer turns out to be crawling with bad sectors, and if you buy a five-ton mainframe computer or printing press, it's your responsibility to arrange prompt, safe, transportation from the premises.)
- D. Proper notice of the sale has been given, and the government reserves the right to ask for tentative bids under several different sets of rules, and to then accept the ones which will result in the best price for the IRS. (More on this in a minute; it's important.)
- E_{\cdot} Explains the method of payment: cash, certified check, postal money order, etc.
- F. Explains that if the sale involves real estate, the previous owners may have legal rights to get the property back under some circumstances, and then cites the sections of the tax code giving more details on the rules that establish who else might have claims against the property, such as municipal or county governments, banks, etc.

The other form, 2433, "Notice of Seizure." is an inventory of all the property being sold, divided up more or less arbitrarily into assorted lots. In this case, some of the lots were fairly large, such as 20 Radio Shack terminals, or all the office chairs in the store; others consisted of a single item, like an IBM Selectric typewriter, or a single DEC printer. The biggest single item on the sheet was a fancy, high-tech printing press that was probably worth fifteen or twenty thousand dollars. This was important, as the presence of a single large item, plus the IRS "multiple methods" sales procedure, may tend to strongly affect the bidding.

Basically, the rules in part "D" above say that the IRS officials can conduct the bidding any way they want; in this case the procedure went like this: First, the official in charge would announce the minimum amount that the government had to realize from the sale to pay off the tax bill. (In this case, the amount was a little over \$34,000.) Second, the whole business, all the lots lumped together, would be offered as an aggregate package, and bids would be taken. Third, each lot on the inventory sheet would also be auctioned off piecemeal.

Finally, the amounts of the bids would be compared. If the high bid for the whole package was greater than the piecemeal total, the winning bidder would get the whole shebang, and the piecemeal bids would be rejected. If the total of individual lot bids was greater, those people would get the property. If neither total was up to the required minimum, the government had the option of postponing the sale and trying again another time. etc.

The result of all this was that everybody was really participating in two phantom auctions at the same time, not only bidding against other

people who wanted the same items, but also against bigger operators who were bidding on the whole business, so if you won the bid for a single computer or printer, you had to wait until the proceedings were over to find out whether you had really bought the merchandise, or were going to go home empty-handed. This was a clear example of Yogi Berra's law, "It ain't over 'til it's over!"

Bearing all this in mind, I looked over the inventory sheet. It's a good idea to get the inventory sheet ahead of time and study it if you can. (You can write the IRS and request that your name be put on the mailing list for future sales.) The list I had was over three typed pages long and contained 30 bidding lots, so I'll just give a quick summary here:

Besides the printing press and its support equipment, office furniture, copy machines, etc. there were a number of items of interest to a computer hobbyist. These included: a) a batch of 5 Tandy DT-100 terminals, b) a DEC LA180 printer, c) an IBM PC XT with a hard drive, d) 2 Okidata 182 printers, e) a big Sun West power supply, f) a Wang daisywheel printer with stand, g) a batch of 20 Radio Shack DT-1 terminals, h) a batch of 10 Microfazer printer buffers, i) three 2,400 Baud ARC modems, j) a complete service bench, with lots of tools and a 100 MHz dual-trace scope, k) a large batch of unsold MS-DOS software, mostly business applications packages, l) two smaller batches of Macintosh software, and finally, m) a large lot of assorted cases of computer printer and copy machine paper.

All the equipment was open to inspection. The descriptions on the inventory sheets were a little vague; whoever had typed the list up hadn't realized that it might make a difference to a bidder whether a printer had a serial or parallel interface, etc. Did the DT-1 terminals have an internal modem or a printer port? The only way to tell was to go over to the stack of machines and look for yourself.

A lot of the equipment appeared not to have manuals, or the manuals were elsewhere on the premises. The 2,400 baud modems, for example, were in one lot, and the manuals for them were on a bookshelf full of software that was listed under another lot. When several people pointed this out, the IRS officials agreed that the manuals ought to go with the equipment, and would be included if they could be located, but the final responsibility was the winning bidder's.

Except for a few minor problems with the documentation, everything was well organized, and it was clear that the IRS officials had gone to a lot of trouble to try and maximize the return from the auction for the taxpayers. Whenever possible, the equipment was all plugged in and running. Potential buyers were welcome to fiddle with the keyboards, run CheckDisk on the PC and look at the hard disk directory, etc. They had arranged for the former employee who had been running the printing press to be there and answer technical questions, and print samples were available for inspection.

There was a large stack of equipment in one corner of the office that was off limits, and was not on the sale inventory. This included equipment that was either the personal property of the employees, property of third parties, such as customers who had sent their computers in to the store for repair, and had then had them trapped there when the business filed for bankruptcy, and equipment which had already been seized by other agencies, such as the city or county tax authorities. The repair customers would eventually get their property back, but probably only after long delays and some annoying paperwork.

By the time of the 10:00 start, there were forty or fifty bidders crowded into the front office of the building. Unlike the popular stereotypes, these IRS agents did not have horns,



sharp vampire fangs, or pointy tails. One large gentleman in a green jacket and military-style baseball cap did fit the Hollywood image of a T-man; he looked like he would be happy to break down doors for Elliot Ness if asked. The rest of the staff looked like ordinary business people. The agent in charge was a young woman in a gray suit who looked like an IBM sales rep.

She opened the proceedings by reminding everyone of the "as-is" nature of the sale described on the handout sheet. All sales would be cash except for the printing press and a couple of other big items. For these, the IRS would accept a 20% cash deposit, and the buyer had 24 hours to arrange the bank paperwork for the rest of the money. The aggregate sale went quickly, as there was only one bid, \$35,000 for the whole package, just a tad above the required minimum.

As the piecemeal sale began, the same individual bid \$13,000 for the press, and another \$2,800 for the support equipment. The bidding was very time consuming, with small lots of stuff being bid up a dollar or two at a time. The five DT-100 terminals went for \$275 for the lot, the DEC printer went for \$75, the PC with the hard disk went for \$800, the Wang printer for \$155, and so forth.

I was interested in the DT-1 terminals, as they had a front panel knockout for a pair of disk drives, and it would be fairly easy to drop a Heath H-89 CPU card or an Ampro Little Board into one for a cheap CP/M computer. I had no place to store 20 of the little rascals, though. The winning bid wound up being \$165 for the lot of 20, or something over eight dollars each for a working serial terminal! The guy who bought them said he'd be happy to sell off individual terminals for twenty bucks or so to anybody who wanted one. "Don't worry, Al," his friend said, "you can always just take out a want ad and unload 'em in a hurry!"

However, it soon became apparent that the prices for the various lots were a little bit too much of a bargain. By about half way through the bidding process, it became clear that the total was going to fall short of the \$35,000 aggregate bid, and things got rather silly, as it became clear that nobody else was actually going to get anything, and that most of the hastily-negotiated side deals and horse trades were worthless.

If you want to bid on an IRS sale of computer equipment, (or any other surplus, for that matter) here are a few suggestions:

First, try to get all the intelligence on the sale that you can. Call or write your local or regional IRS office (not the big national centers that process personal tax returns) and ask how you can get on the mailing list for auctions in your area. If you are a member of an active computer club or user group, this is a good club project. Also, do your homework! Once you have a list of the equipment that is going to be auctioned, check out the prices in the Computer Shopper classifieds, the surplus catalogues, maybe even attend a couple of swapmeets in your area, and get a feel for the realistic street price for a given item.

Once you get to the site of the auction on the morning of the sale, make it a point to aggressively check out the condition of the equipment you are interested in. There's a big difference in the value of hardware that is brand new inventory, still in the factory carton, and stuff that has been kicking around the repair shop. Be especially cautious about software; check to see what version the packages are, as obsolete early versions of very expensive business packages may be worth only pennies on the dollar.

Always check for manuals and documentation, cables, cases, etc. for equipment. The people who type up the inventory may not be very knowledgeable about computers, and information is often lacking about serial or parallel interfaces for printers, etc. so make it a point to check the equipment out yourself. (Reading up on a borrowed tech manual before the sale can really help here.) For example, at this sale, the officials were unclear about the differences between an IBM PC, XT, or AT!

If possible, arrange to attend the auction with a number of friends or fellow club members. This allows you to pool your resources and bid on a larger lot of material than you could handle on your own. Pooling transportation can be a big help; a friend with a big van or pickup truck is nice to have, and having several reliable individuals to help carry bulky and heavy items can be really important. If the sale is in a doubtful neighborhood, having club members to watch the truck and provide security while the rest of the group goes inside for another load of surplus goodies can help insure that you get the stuff home safely.

Other important tips include making sure you have sufficient funds with you in the proper form, (Read a copy of form 2434-B for details) and take along a supply of business cards or stamped, self-adressed postcards with you; if a rival bidder ends up with a big batch of computers at a bargain price, he may be willing to horse-trade with you later. You may not have the resources to bid on a lot of fifty laptop computers, but if the successful buyer has your name, address and phone number, it will expedite cutting a deal later for one or two machines.

Finally, as with all surplus wheeling and dealing, try and make a realistic estimate of what your time is worth; you may have to spend a whole morning bidding to save a few dollars. If it becomes clear that, as in the case of this auction, a big bidder for the overall business is going to get it, and that the piecemeal sale is going nowhere, you can give him a business card and a quick list of the items you are interested in, and then go home.

Newcomb's Paradox an Attempted Explanation

by Fred Robinson

Newcomb's Paradox, so-called by Martin Gardner, is a little thought problem of a philosophical nature which can lead to either an evening of stimulating conversation or an all-out name-calling argument. I present it here with no apology, setting it up in my own terms.

The Predictor, a nondescript being who is quite honest and almost always right when predicting the future, likes to play with peoples' minds during the off hours. It has a simple setup, involving two closed, opaque boxes, and a pile of money.

Picking an unsuspecting dupe from the street, it gives the following spiel: "I have here two boxes. Box 1 contains one thousand dollars. Box 2 contains either nothing or one million dollars. You may take what is in both boxes, or just what is in box 2. Now, I have made a prediction about the choice you will make, and have based my actions on that prediction. If I predicted you would take what is in both boxes, I put nothing in box 2. However, if I predicted that you would take only what is in box 2, then I put One Million Dollars in box 2."

"Well, gee," says the dupe, "uh... what did you predict?"

"Aha," says the Predictor, "I predicted you would ask me that. I also predicted that I wouldn't tell you. I won't tell you what I predicted. You are on your own. Oh, one last thing. If I predicted that you would make your choice by flipping a coin, or some such, I left nothing in box 2. No peeking, now." The Predictor then leaves the room, and gets his jollies by listening in on the thought processes of the dupe.

That's the setup. Put yourself in the place of the dupe. What do you choose to take?

A bit of background may help. Assume that the Predictor, while admitting that it is not always accurate, has never been wrong. Also, that the Predictor is honest and will not try to trick you by changing the contents of the boxes while or after you decide. You may assume that the Predictor is God, or an alien or human being with psychic powers, or a computer which can calculate the outcome of a situation given a complete analysis of the factors involved (including your brain).

You have two choices. Take the contents of both boxes, or just the contents of box 2. Either way, you can't loose. Box 1 will always have one thousand dollars. You can even assume that you can see the stack of bills through a window in box 1. So what do you do? Try to decide before you continue reading.

First, consider taking just box 2. The Predictor is extremely accurate in its work. Therefore, if you take box 2, you will be ahead by one million dollars. But, if you take both boxes, you only get one thousand dollars. Clearly, it is to your advantage to take box 2.

On the other hand, consider taking both boxes. The Predictor has left the room. The money has been in the boxes since before the Predictor pulled you in off the street. If both boxes contain money, then if you decide to take both boxes, the million dollars won't magically disappear. Clearly, it is to your advantage to take both boxes.

Now what? Both choices can't be right. But which one is? Nobody can say, least of all games theorists.

What you decide depends on your-greed, your belief in free will versus determinism, and your faith in the accuracy of the Predictor.

The first argument, for box 2, is a deterministic argument. Since the Predictor has based its past actions on your future actions, it would seem that your future actions are now cast in concrete. You have no choice in what you do.

The second argument, for both boxes, is a free-will argument. The Predictor has made its choice, so you can darned well do whatever you want!

The situation gets stickier when you start to doubt the accuracy of the Predictor. Your best action then depends on the perceived accuracy of the predictor and the amounts of money involved. For the situation given above, the payoff matrix looks like this:

Predictor has predicted you would take

			Box 2	Both boxes
You	take - Both	Box 2	\$1,000,000	\$0
		boxes	\$1,001,000	\$1,000

Figure 1: Payoff matrix for Newcomb's Paradox. You get the amount in the cell corresponding to the prediction and your action.

When the Predictor is always absolutely accurate, your best move is to take box 2. When the Predictor is always completely wrong, your best move is to take both boxes. When the predictor is exactly 50% accurate, your best move is still to take both boxes.

If you want to be pedantic about it, your best move is to take both boxes except when the Predictor is 100% accurate. This is, I believe, a fair statement of a "dominance" argument for taking both boxes. But as the accuracy of the Predictor increases, so do your chances of coming out with more money if you choose box 2.

The "expected utility" of a choice depends on how much money is at stake and the accuracy of the Predictor. Assuming the Predictor is 90% accurate, the expected utility of taking both boxes is

(0.1*\$1,001,000) + (0.9*\$1,000) = \$101,000

and the expected utility of taking only box 2 is

(0.9*\$1,000,000) + (0.1*\$0) = \$900,000

Using this principle, the best move is to take box 2.

Try it with different ratios of money. Replace the million with two million, or five thousand. When the amounts of money are similar, the game changes.

Where do I stand? Since this is a thought experiment, I can afford to drop my skepticism and accept the existence of a near-100%-accurate predictor. I opt to take box 2, and walk out with one million buckaroos.

For more information on this little delight, see "Knotted Doughnuts" by Martin Gardner, chapters 13 and 14 (pp. 155-175). Chapter 13 is Gardner expounding on the topic, and chapter 14 is an analysis by Robert Nozick, a decision theory expert, through whom Gardner first learned of the paradox.





It's time once again to

Ask Dr. Computer Science

So let's ask Dr. Computer Science. *That's me!* Remember, he knows more than you do! *That's right!*

(By Steve King, with apologies to Duck's Breath Mystery Theatre and National Public Radio.)

Dear Dr. Computer Science, Why won't my program run?

Programs running. That's all I ever hear anymore. Whatever happened to the good old days when programs just walked, like the rest of us? But no, in today's world of high-speed multiple megahertz processors, all programs are expected to run everywhere! Has it ever occurred to you that your program is just plain tired of running? That maybe it would rather walk for a change, or, at least, ride the address bus to where it's going? Have a heart! Let you programs slow down to take time to smell the roses! And, if you must make them run once in a while, at least buy them a comfortable pair of running shoes.

Dear Dr. Computer Science, I was running a program on the mainframe, when all of a sudden my terminal locked up. What do I do?

The term "locked up" comes from the fact that the little gnomes inside the terminal get tired of working and lock the terminal so you can't get any more data into it. The only solution is to break in with a lockpick or with the services of a good locksmith. Either that, or to give the terminal a good swift kick. Gnomes can't stand to be kicked around, and they will eventually unlock the terminal for you, just to avoid this unpleasantness. In fact, there's no computer problem in the world that a good, swift kick can't handle.

Dear Dr. Computer Science, When I unpacked my new PC, I found a book labeled MS-DOS. Where are the MS-DON'TS?

There aren't any. Microsoft made a perfect operating system. It can do anything. Hence, the only book they include is MS-DOS, a list of some of the things that it can do. If you want a limited operating system that has enough "don'ts" to warrant an entire book devoted to them, I suggest you buy a Macintosh instead.

Dear Dr. Computer Science, What does a word processor do?

Are you familiar with the way a food processor slices, dices, and makes julienne fries out of ordinary food? Well, a word processor does the same thing with words. Yessirree, just drop any old word you want into a word processor and it will come out sliced up any which way. Drop an entire sentence in and out comes hash! Mmmm, mmmmm good! So, next time someone tells you to "eat your words", just pull out your handy word processor and settle down for a delightful meal.

Dear Dr. Computer Science, How do I get a printout?

Many mail-order houses, such as Sears, JC Penney, and L.L. Bean now sell

printouts at quite reasonable prices. To get a printout, simply drop any of these places a check and they'll send you a printout by way of return mail.

Dear Dr. Computer Science, How do I turn my computer on?

Many people write to ask me this, but I can't for the life of me figure out why. Who would want to turn a computer on? But, since so many are interested in it, I'll answer your question. To turn a computer on, try blowing in its ear. Whisper sweet nothings to it while you run your hand up its leg. Tell it you love it. I'm sure this will turn you computer on. Why shouldn't it? It always turns me on!

Dear Dr. Computer Science, I turned my computer on. Now what?

What am I, the Playboy Advisor or something? Just play it by ear, I'm sure it will come naturally to you! Just keep in mind which are the male and which are the female connectors and you'll have no problem. But remember, you never know about viruses in this day and age. Play it safe, always wear a write-protect tab!

Dear Dr. Computer Science, Why does a Macintosh look like a toaster?

Because it is one. Macintoshes were originally designed to be toasters for those little cocktail breads. Because cocktail bread, especially rye cocktail bread, is so hard to toast, a computer controlled toaster had to be developed. The result was the Apple Macintosh. The 3.5" disk drive is really the slot you put the toast in. The contrast control doesn't do anything for the screen, but it does determine how light or dark the toast will be. It's interesting to note that the microprocessor actually produces so much heat that the traditional toaster heating elements could be removed altogether. Go to any high–society party and poke around in the kitchen. I'm sure you'll see a whole legion of Macintoshes toasting up an entire bakery of cocktail bread!

Dear Dr. Computer Science, Why can't I run an IBM PC program on my school's IBM mainframe? If they're both made by IBM they should be able to run the same programs, right?

Absolutely right. IBM PCs and IBM mainframes can indeed run the same programs. However, you'll never see a PC program running on a mainframe for the simple reason that the mainframe considers PC programs to be beneath its dignity. It's kind of like asking the president of General Motors to wash dishes for a while in Joe's Diner. It's just not going to happen! On the other hand, PCs would love to run mainframe programs, but no one can seem to figure out how to get one of those big fixed disks into the PC's floppy drive. Once that happens, though, the bloodless revolution will come and we will see the emergence of a classless, Marxist computer society. Whether that's good or bad, I don't know. I'm a computer scientist; I don't need to understand politics.

Dear Dr. Computer Science, I just erased a program of of my disk. How can I get it back?

It depends on why you erased it. Programs have very delicate egos, and once you hurt them it's very hard to get them to come back to you. If you erased the program because you thought you didn't need it anymore, you've got the best chance to get it back. Programs, like people, need to be needed. Talk to it nicely and convince it that you still need it. If you erased the program out of sheer negligence, you've got about a fifty—fifty chance to get it back. You've hurt it's feelings and it probably thinks that it can do better elsewhere. And it's probably right! There's nothing worse than someone who erases a program without even realizing what they're doing! But, if you erased the program because you found another program, forget it. The first program will never come back. Programs are very jealous and, once jilted, are lost forever. Remember: "If you love a program, erase it. If it comes back it's yours forever. If not, you feel like a real idiot."

Thank you, Dr. Computer Science! Send your computer science questions to Ask Dr. Computer Science. Remember, he's not a real doctor! I have a Master's Degree. In Computer Science!

Here is the list of people who subscribe to Pyro Technics. Publishing the Mob The Mob List List is an old tradition, but this is the last time we'll print the whole thing—it's simply gotten too big. In the future, copies will be available to GT members who simply gotten too big. In the future, copies will be available to GT members who send two first-class stamps to the Pyro address.

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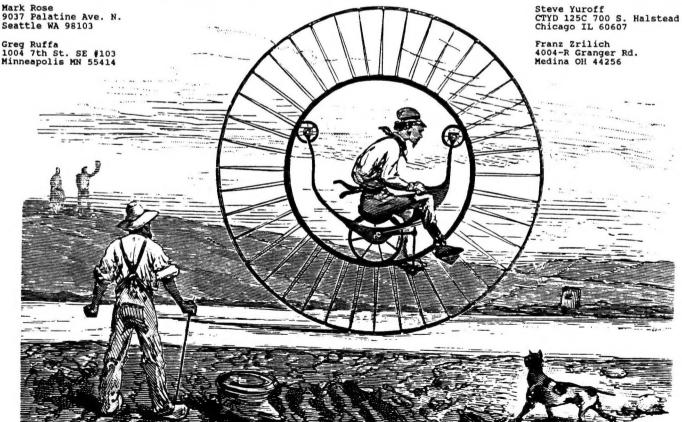
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SOME IMPORTANT THINGS TO CONSIDER

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PYROTECHNICS is doing quite well these days, especially since we've finally gotten all the bugs out of the mailing list and the newsletter has successfully attained self-sufficiency. All the folks on our mailing list are either paid subscribers or contributors and that means a balanced budget. Now that we have reaced this point, we would like to poll the readers for a few opinions on just where we go from here.

For instance, though the question has been raised in the past, no one has really defined just what it means to be a member of General Technics. We have decided to restructure GT, and try to get it on its feet again; but in order to do this properly, we need some input as to what to do and not do. While nothing concrete has been laid out, one idea put forth was to make participating in PYRO (writing articles, submitting Biodatas, etc.) a requirement for membership. This idea comes from the original goals that Jeff Duntemann had for the group in the begining which was that GT would act as an information exchange for people interested in tech. Well, that has changed a bit since GT is going There are far to try harder to live up to its name: General Technics. more talents in our group than just the ability to assemble electronic parts, and we'd like to invite a wider range of expertise into our circle. We can't help but benefit from the influx of new people and new ideas.

PYRO's mailing list has grown by leaps and bounds with each issue which also necessitates a change in policy. Henceforth, PYRO is going to be the mouthpiece for General Technics, and will be available in subscriptions and as sample issues to anyone who pays for them. However, information such as the Mob list, berserker announcements, etc. will be confined to private mailings. Perhaps a service provided free with your GT membership? We could do new namebadges, (I like the old ones a lot, and we could probably get them made that way again), update the PYRO index, and so on.

It would be real nice to give GT some substance again, instead of letting it languish as a nebulous non-entity. There are certainly reasons for doing so, since 66 people showed up at the last Houghton Berserker, a record number! What follows are some questions that we'd like some input on:

- 1. What did you think a GT membership USED to entail?
- 2. What to you think a membership should entail now?
- 3. Should we charge for it?
- 4. Should we require participation in PYRO?
- 5. If not, what other criterion would you use?
- 6. What kind of benefits would you like to see from being a member?
- 7. Does PYRO lack in any areas that we should address?
- 8. How about: Making memberships real cheap for contributors and expensive for those who don't?

PyroTechnics

The Now & Then Newsletter of General Technics

Published Quarterly

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Submissions

PYROTECHNICS gleefully accepts contributions in the form of art, and articles. If at all possible, text should be formatted 5 inches wide and justified. PLEASE! If you go to the trouble to format it, make sure that your finished copy is BLACK. Disks are also acceptable if you do your text as an IBM or MacIntosh or Atari (8 bit) file.

Contributions of art can consist of cartoons, fillos, photos, etc. We prefer good black photocopies to original art.

All contributors will receive a free copy of the issue they appeared in, and if that contributor is a subscriber, then the subscription is extended by one issue.

PYRO would also like to retain reprint privileges on all contributions. If you have any serious objections to this, let us know before we print your material. (Reprints of earlier issues are made and sold to help pay for larger issues, half tone reproduction, etc.)

Any material sent to PYRO will not be returned unless accompanied by a self addressed, stamped envelope.

All correspondence should be addressed to: **PyroTechnics** P.O. Box 217 West Chicago, III. 60185

While Mary Lynn receives the mail, she might not be the one to answer it. Please specify if you need an immediate

Guidelines For Electronic Submissions

Material for use in PyroTechnics may be submitted to the editors on disk or via electronic mail if you follow these simple rules:

On Disk:

 Unless absolutely impossible, please send plain text. Each word processing package has its own way of storing text on disk, with various attractive formatting options. Unfortunately, any other word processing package will look at your file and throw up their hands. Fortunately, most programs have an option for outputting plain (sometimes called ASCII) text. This is the option you should use. If for some reason you cannot, check with us first to see if we can read a file from your package. Remember, we can't use a submission we can't read.

We can accept files on regular 400 or 800k Macintosh diskette, IBM 5.25 inch diskette. For Atari (8 bit) 5.25 inch diskette. various reasons, MacIntosh and IBM 5.25 inch diskette are preferred. Anything else, call us first. We may not be able to scrounge up the

appropriate gear in time.

Electronic Mail:

At this time we are able to accept electronic mail submissions only through BitNet, InterNet, and CompuServe.

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Deadline for submissions for PYRO #46 (next issue) is May 5,

Deadlines for the next few Issues are as follows:

#46 – May 5, 1990 #47 – August 5, 1990

